

Ident-No: HARDENER HV 953 U

Version 7
Revision Date 04.03.2004

Print Date 18.03.2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information

Trade name : HARDENER HV 953 U

Company : Huntsman Advanced Materials
(Hong Kong) Ltd
Suite 2303-2306
Tower 1, The Gateway
No. 25 Canton Road
Kowloon, Hong Kong

Telephone : +85221488800
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number

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Formulated polyaminoamide
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases)	Concentration [%]
N(3-dimethylaminopropyl)-1,3-propylenediamine EC-No.: 234-148-4	10563-29-8	C	R21/22 R34 R43	4.00 - 10.00

3. HAZARDS IDENTIFICATION

Irritating to eyes and skin.
May cause sensitization by skin contact.

4. FIRST AID MEASURES

Inhalation : Move to fresh air.
Call a physician immediately.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
If eye irritation persists, consult a specialist.

Skin contact : Wash off with soap and plenty of water.
If skin irritation persists, call a physician.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).
Do not induce vomiting.
Obtain medical attention.

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5. FIRE-FIGHTING MEASURES

- | | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray.
Carbon dioxide (CO ₂).
Foam.
Dry powder. |
| Extinguishing media which must not be used for safety reasons | : | High volume water jet. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus and protective suit. |
| Further information | : | Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides. |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|--|
| Personal precautions | : | Avoid breathing dust.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation. |
| Environmental precautions | : | Do not allow material to contaminate ground water system.
Prevent product from entering drains. |
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal. |

7. HANDLING AND STORAGE

Handling

- | | | |
|-------------------------|---|---|
| Advice on safe handling | : | Provide sufficient air exchange and/or exhaust in work rooms.
Ensure adequate ventilation.
Handle and open container with care. |
|-------------------------|---|---|

Storage

- | | | |
|--|---|---|
| Further information on storage conditions | : | Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Keep at temperatures between 2 and 40°C. |
| Storage hazard class
Huntsman Advanced
Materials | : | Storage class 12, Liquids, not dangerous |

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye protection : Tightly fitting safety goggles.
Face-shield.
- Hand protection : rubber or plastic gloves
- Skin and body protection : Safety shoes.
long sleeved clothing
- Hygiene measures : Keep away from food, drink and animal feeding stuffs.
Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : light yellow
- Odour : slight
- pH : 12
at (20 °C)
1:1 in water
- Boiling point : > 200 °C
- Thermal decomposition : > 200 °C
- Flash point : 110 °C
Method: DIN 51758 (Pensky-Martens Closed Cup)
- Vapour pressure : 4 Pa
at 20 °C
- Density : 0.95 g/cm³
at 25 °C
- Water solubility : at 20 °C
Note: practically insoluble

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Viscosity, dynamic : 20,000 - 35,000 mPa.s
at 25 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Take necessary action to avoid static electricity discharge.

Materials to avoid : Strong acids and strong bases.
Strong oxidizing agents.

Hazardous decomposition products : Carbon oxides.
Nitrogen oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: > 5,000 mg/kg

Eye irritation : irritating
rabbit

Skin irritation : irritating
rabbit
dermal

Sensitization : Causes sensitization.
guinea pig
dermal

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Result: Not readily biodegradable.

Ecotoxicity effects

Further information on ecology

Additional ecological information : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Product : Must be incinerated, when in compliance with local regulations.

Container : Empty containers can be landfilled after cleaning, when in

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compliance with the Environmental Protection (Duty of Care)
Regulations 1991.

Contaminated packaging : Waste Key Number: 305055

14. TRANSPORT INFORMATION

Land transport

ADR:

Regulation: Not dangerous goods

RID:

Regulation: Not dangerous goods

Sea transport

IMDG:

Regulation: Not dangerous goods

Air transport

IATA-DGR:

Regulation: Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s): : Xi Irritant

R-phrase(s) : R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.

S-phrase(s) : S26 In case of contact with eyes, rinse
immediately with plenty of water and seek
medical advice.
S28 After contact with skin, wash immediately
with plenty of soap and water.
S37/39 Wear suitable gloves and eye/face
protection.

Hazardous components : N(3-dimethylaminopropyl)-1,3-propylenediamine
which must be listed on the EC-No.: 234-148-4
label

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National legislation

Water contaminating class : 1 slightly water endangering
Classified according to annex 4 of the German VwVwS for preparations.

Notification status

: EINECS yes

: TSCA yes

: DSL yes

: AICS yes

: KECI (KR) yes

: JEX (JP) yes

: CH_BAGT Notification number: 617384

: CH_GIFTKL Notification number: 4

16. OTHER INFORMATION

List of R-phrases (Section 2)

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Huntsman Advanced Materials General Conditions of Sale.